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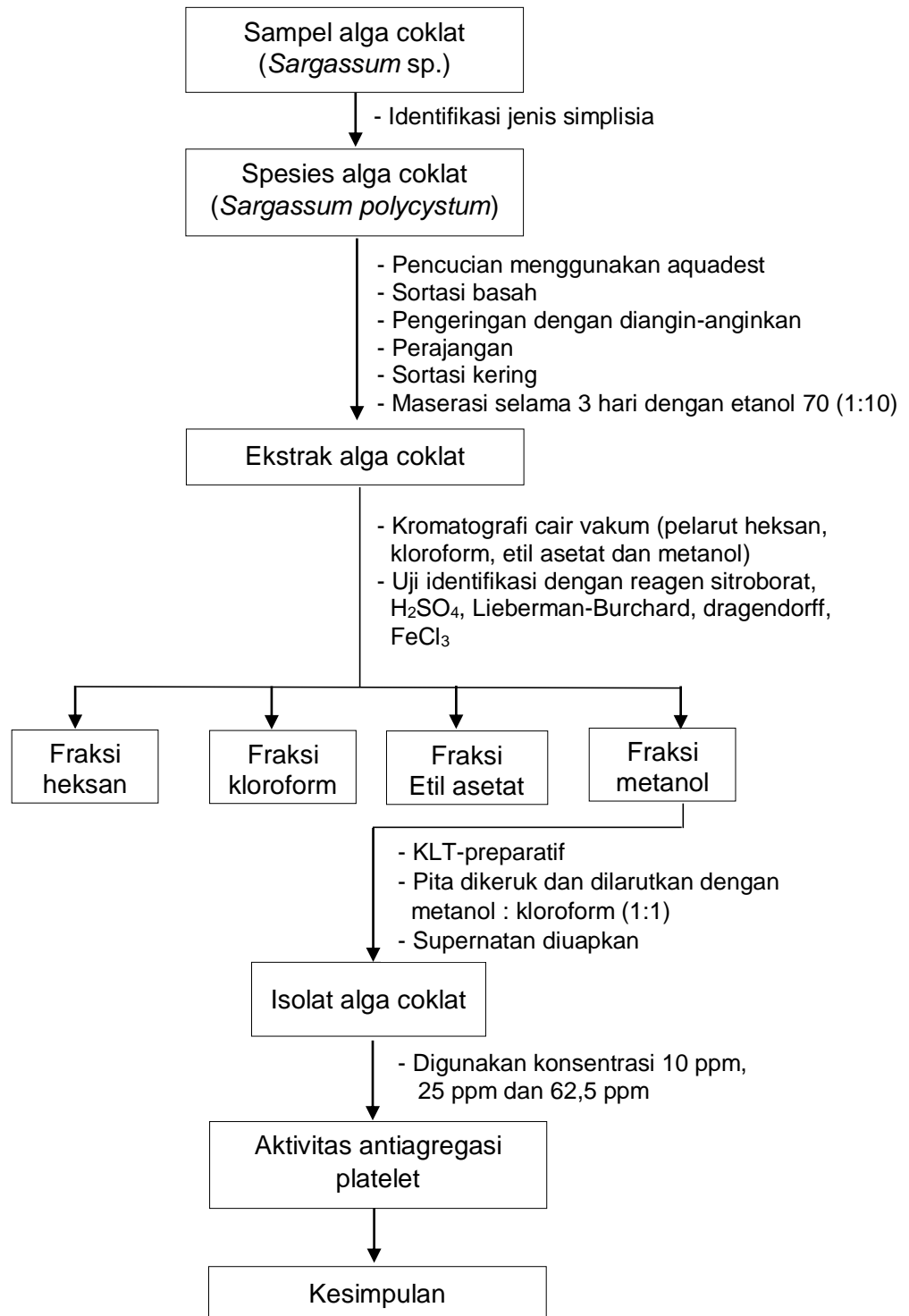
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LAMPIRAN

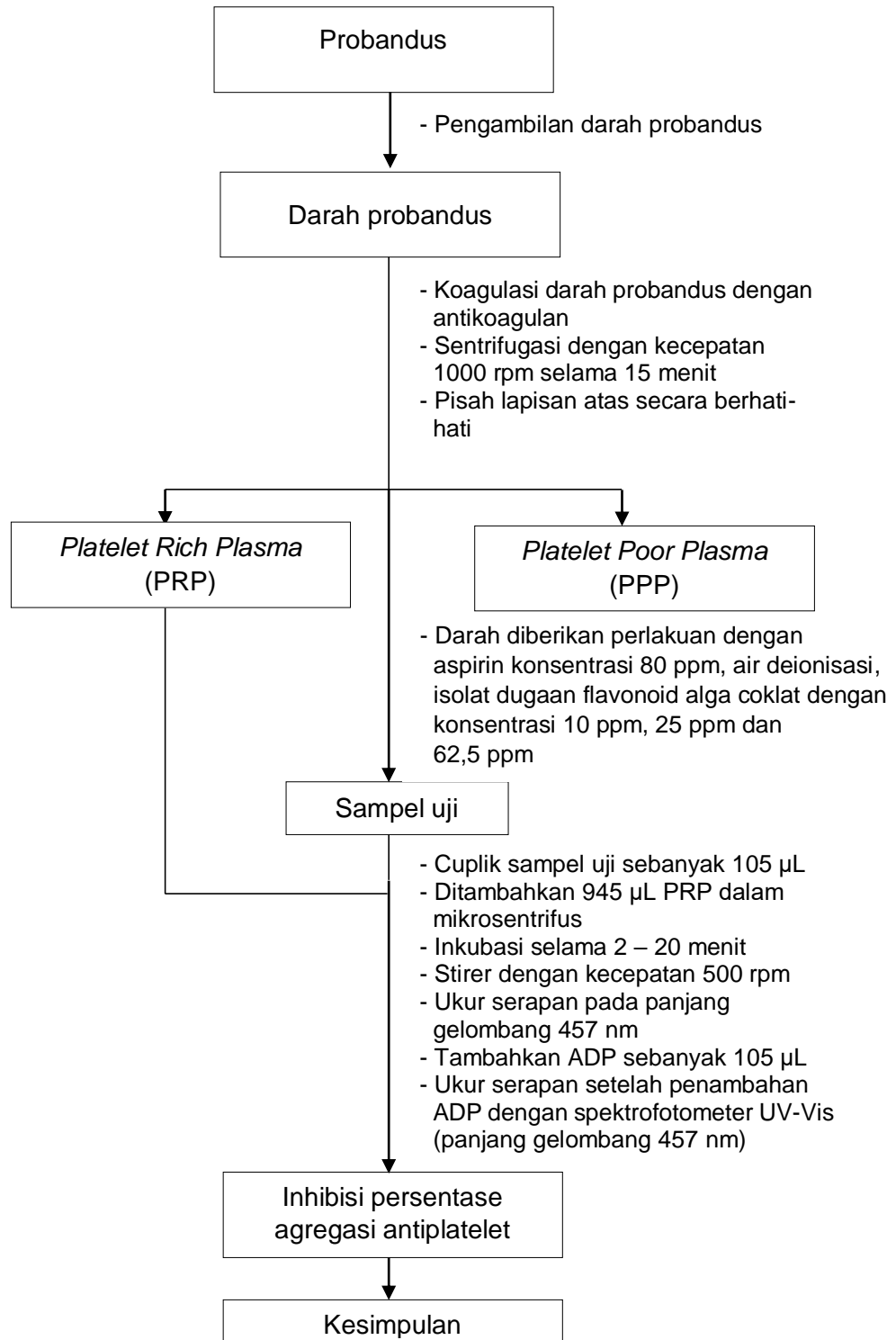
Lampiran 1

Skema Kerja Penelitian



Lampiran 2

Skema Kerja Uji Aktivitas Antigregasi Platelet



Lampiran 3

Prosedur Pembuatan Reagen

1. Pembuatan reagen H_2SO_4 10%

Larutan yang dibuat sebanyak 30 mL. Reagen H_2SO_4 pekat dengan konsentrasi 96% dengan volume 3,2 mL yang diencerkan dengan aquadest sebanyak 26,8 mL (Marjoni, 2016).

2. Pembuatan reagen sitroborat

Reagen sitroborat dibuat dengan melarutkan 0,5 gram asam borat dan 0,5 gram asam sitrat ke dalam 50 mL etanol 70% (Marjoni, 2016).

3. Pembuatan reagen FeCl_3

Sebanyak 1 g besi (III) klorida dilarutkan dalam air suling hingga 100 mL kemudian disaring (Marjoni, 2016).

4. Pembuatan reagen dragendorff

Sebanyak 8 g bismut nitrat dilarutkan ke dalam 20 mL HNO_3 , kemudian dicampur dengan larutan kalium iodida sebanyak 27,2 g dalam 50 mL air suling. Campuran dibiarkan sampai memisah secara sempurna. Ambil larutan jernih dan diencerkan dengan air secukupnya hingga 100 mL (Marjoni, 2016).

5. Pembuatan reagen Lieberman-Burchard

Larutan pereaksi Lieberman-Burchard dibuat dengan mencampurkan 20 bagian asam asetat anhidrat dengan 1 bagian asam sulfat pekat dan 50 bagian kloroform. Larutan pereaksi ini harus dibuat baru (Marjoni, 2016).

Lampiran 4

Perhitungan

1. Perhitungan rendemen ekstrak

$$\begin{aligned}\% \text{ rendemen ekstrak} &= \frac{\text{Berat ekstrak (g)}}{\text{Berat simplisia (g)}} \times 100\% \\ &= \frac{150,95 \text{ g}}{1650 \text{ g}} \times 100\% \\ &= 9,14\%\end{aligned}$$

2. Perhitungan nilai Rf ekstrak dan fraksi

$$\text{Rf fraksi heksan} = \frac{4,25}{4,5} = 0,94$$

$$\text{Rf fraksi etil asetat} = \frac{4,05}{4,5} = 0,9; \text{ Rf fraksi etil asetat 2} = \frac{3,1}{4,5} = 0,68$$

$$\text{Rf ekstrak awal} = \frac{4,3}{4,5} = 0,95$$

$$\text{Rf fraksi kloroform} = \frac{4,2}{4,5} = 0,93$$

$$\text{Rf fraksi metanol} = \frac{4,3}{4,5} = 0,95$$

3. Perhitungan nilai Rf isolat

$$\text{Rf} = \frac{5,2}{5,5} = 0,94$$

Lampiran 5
Data Antiagregasi Platelet

Tabel 7. Data Absorbansi Agregasi Platelet

No.	Sampel	Absorbansi (457 nm)	% Agregasi platelet
1	Aspirin 80 ppm (1) sebelum penambahan ADP	0.959	9.697
	Aspirin 80 ppm (1) setelah penambahan ADP	0.907	
2	Aspirin 80 ppm (2) sebelum penambahan ADP	0.954	10.062
	Aspirin 80 ppm (2) setelah penambahan ADP	0.904	
3	Aspirin 80 ppm (3) sebelum penambahan ADP	0.965	7.461
	Aspirin 80 ppm (3) setelah penambahan ADP	0.928	
4	Aspirin 80 ppm (4) sebelum penambahan ADP	0.969	7.430
	Aspirin 80 ppm (4) setelah penambahan ADP	0.928	
5	Air deionisasi (1) sebelum penambahan ADP	0.996	65.160
	Air deionisasi (1) setelah penambahan ADP	0.351	
6	Air deionisasi (2) sebelum penambahan ADP	0.990	63.737
	Air deionisasi (2) setelah penambahan ADP	0.369	
7	Air deionisasi (3) sebelum penambahan ADP	0.997	50.852
	Air deionisasi (3) setelah penambahan ADP	0.493	

No.	Sampel				Absorbansi (457 nm)	% Agregasi platelet
8	Air deionisasi	(4)	sebelum	0.985	38.883	
	penambahan ADP					
	Air deionisasi	(4)	setelah	0.617		
	penambahan ADP					
9	Isolat 62,5 ppm	(1)	sebelum	0.849	15.429	
	penambahan ADP					
	Isolat 62,5 ppm	(1)	setelah	0.869		
	penambahan ADP					
10	Isolat 62,5 ppm	(2)	sebelum	0.876	16.095	
	penambahan ADP					
	Isolat 62,5 ppm	(2)	setelah	0.859		
	penambahan ADP					
11	Isolat 62,5 ppm	(3)	sebelum	0.844	15.758	
	penambahan ADP					
	Isolat 62,5 ppm	(3)	setelah	0.867		
	penambahan ADP					
12	Isolat 62,5 ppm	(4)	sebelum	0.845	16.804	
	penambahan ADP					
	Isolat 62,5 ppm	(4)	setelah	0.858		
	penambahan ADP					
13	Isolat 25 ppm	(1)	sebelum	0.877	15.963	
	penambahan ADP					
	Isolat 25 ppm	(1)	setelah	0.86		
	penambahan ADP					
14	Isolat 25 ppm	(2)	sebelum	0.868	17.511	
	penambahan ADP					
	Isolat 25 ppm	(2)	setelah	0.848		
	penambahan ADP					
15	Isolat 25 ppm	(3)	sebelum	0.868	16.359	
	penambahan ADP					
	Isolat 25 ppm	(3)	setelah	0.858		
	penambahan ADP					
16	Isolat 25 ppm	(4)	sebelum	0.875	17.485	
	penambahan ADP					

No.	Sampel					Absorbansi (457 nm)	% Agregasi platelet
	Isolat	25	ppm	(4)	setelah	0.847	
	penambahan ADP						
17	Isolat	10	ppm	(1)	sebelum	0.876	
	penambahan ADP						
	Isolat	10	ppm	(1)	setelah	0.864	15.525
	penambahan ADP						
18	Isolat	10	ppm	(2)	sebelum	0.863	
	penambahan ADP						
	Isolat	10	ppm	(2)	setelah	0.864	15.758
	penambahan ADP						
19	Isolat	10	ppm	(3)	sebelum	0.874	
	penambahan ADP						
	Isolat	10	ppm	(3)	setelah	0.865	15.446
	penambahan ADP						
20	Isolat	10	ppm	(4)	sebelum	0.885	
	penambahan ADP						
	Isolat	10	ppm	(4)	setelah	0.855	16.384
	penambahan ADP						

Lampiran 6

Data Statistik

Tabel 8. Uji Normalitas Shapiro-Wilk

Tests of Normality

Grup	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Agregasi Aspirin	.302	4	.	.794	4	.092
Agregasi Air deionisasi	.269	4	.	.895	4	.406
Agregasi Isolat 62,5 ppm	.200	4	.	.965	4	.812
Agregasi Isolat 25 ppm	.297	4	.	.839	4	.192
Agregasi Isolat 10 ppm	.269	4	.	.862	4	.267

a. Lilliefors Significance Correction

Tabel 9. Uji Deskriptif One Way Anova

Descriptives

Agregasi

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Aspirin	4	8.66250	1.413205	.706603	6.41377	10.91123	7.430	10.062
Air deionisasi	4	54.65775	12.330018	6.165009	35.03794	74.27756	38.882	65.160
Isolat 62,5 ppm	4	16.02150	.588273	.294137	15.08543	16.95757	15.429	16.804
Isolat 25 ppm	4	16.82950	.788736	.394368	15.57444	18.08456	15.963	17.511
Isolat 10 ppm	4	15.77825	.424998	.212499	15.10198	16.45452	15.446	16.384
Total	20	22.38990	17.539283	3.921903	14.18126	30.59854	7.430	65.160

Tabel 10. Uji One Way Anova

ANOVA

Agregasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5379.377	4	1344.844	43.333	.000
Within Groups	465.526	15	31.035		
Total	5844.902	19			

Tabel 11. Uji Signifikansi Post-Hoc Tukey

Multiple Comparisons

Dependent Variable: Agregasi

Tukey HSD

(I) Grup	(J) Grup	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Aspirin	Air deionisasi	-45.995250*	3.939230	.000	-58.15929	-33.83121
	Isolat 62,5 ppm	-7.359000	3.939230	.374	-19.52304	4.80504
	Isolat 25 ppm	-8.167000	3.939230	.281	-20.33104	3.99704
	Isolat 10 ppm	-7.115750	3.939230	.406	-19.27979	5.04829
Air deionisasi	Aspirin	45.995250*	3.939230	.000	33.83121	58.15929
	Isolat 62,5 ppm	38.636250*	3.939230	.000	26.47221	50.80029
	Isolat 25 ppm	37.828250*	3.939230	.000	25.66421	49.99229
	Isolat 10 ppm	38.879500*	3.939230	.000	26.71546	51.04354
Isolat 62,5 ppm	Aspirin	7.359000	3.939230	.374	-4.80504	19.52304
	Air deionisasi	-38.636250*	3.939230	.000	-50.80029	-26.47221
	Isolat 25 ppm	-.808000	3.939230	1.000	-12.97204	11.35604
	Isolat 10 ppm	.243250	3.939230	1.000	-11.92079	12.40729
Isolat 25 ppm	Aspirin	8.167000	3.939230	.281	-3.99704	20.33104
	Air deionisasi	-37.828250*	3.939230	.000	-49.99229	-25.66421
	Isolat 62,5 ppm	.808000	3.939230	1.000	-11.35604	12.97204
	Isolat 10 ppm	1.051250	3.939230	.999	-11.11279	13.21529
Isolat 10 ppm	Aspirin	7.115750	3.939230	.406	-5.04829	19.27979
	Air deionisasi	-38.879500*	3.939230	.000	-51.04354	-26.71546
	Isolat 62,5 ppm	-.243250	3.939230	1.000	-12.40729	11.92079
	Isolat 25 ppm	-1.051250	3.939230	.999	-13.21529	11.11279

*. The mean difference is significant at the 0.05 level.

Tabel 12. Uji Signifikansi Tukey secara Keseluruhan

Agregasi

Tukey HSD^a

Grup	N	Subset for alpha = 0.05	
		1	2
Aspirin	4	8.66250	
Isolat 10 ppm	4	15.77825	
Isolat 62,5 ppm	4	16.02150	
Isolat 25 ppm	4	16.82950	
Air deionisasi	4		54.65775
Sig.		.281	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

Lampiran 7

Dokumentasi Penelitian



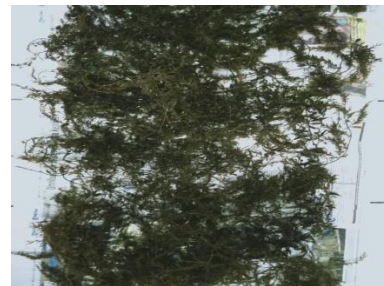
Gambar 21. Sampel *Sargassum polycystum*



Gambar 22. Pencucian sampel



Gambar 23. Sortasi basah sampel



Gambar 24. Pengeringan sampel



Gambar 25. Perajangan simplisia



Gambar 26. Simplisia diblender



Gambar 27. Maserasi simplisia



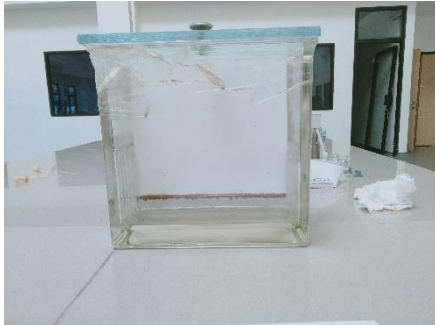
Gambar 28. Ekstrak dievaporasi



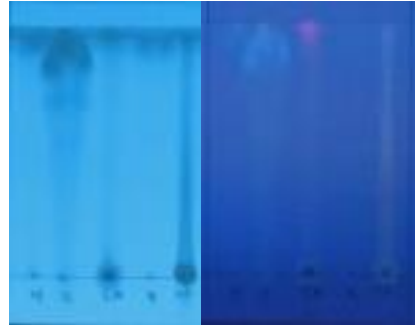
Gambar 29. Fraksinasi ekstrak



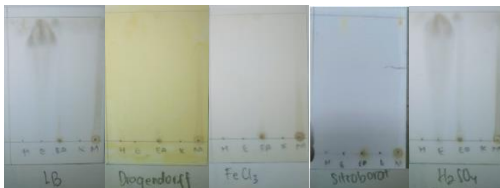
Gambar 30. Hasil fraksinasi ekstrak



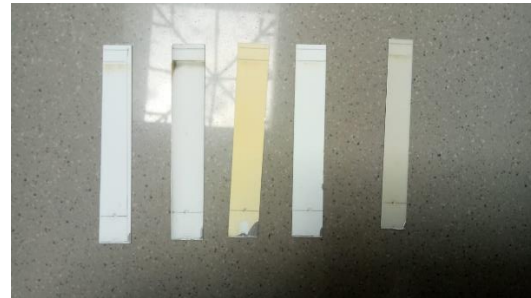
Gambar 31. Proses pengembangan lempeng



Gambar 32. Uji identifikasi menggunakan UV 254 dan 366 nm



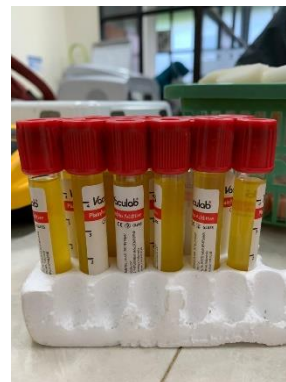
Gambar 33. Hasil uji identifikasi senyawa fraksinasi



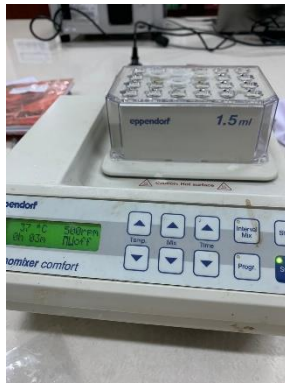
Gambar 34. Hasil uji identifikasi isolat



Gambar 35. Preparasi bahan pengujian antiagregasi platelet



Gambar 36. Pengambilan sampel PRP dari PMI Makassar



Gambar 37. Proses inkubasi sampel PRP



Gambar 38. Pengujian uji aktivitas antiagregasi dengan spektrofotometer UV-Vis

Lampiran 8

Identifikasi Sampel



LABORATORIUM ILMU LINGKUNGAN DAN KELAUTAN
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UNIVERSITAS HASANUDDIN, KAMPUS TAMALANREA
JL. PERINTIS KEMERDEKAAN KM.10, MAKASSAR

Lampiran 2. Alga Coklat Phaeophyta



Gambar 1. *Sargassum polycystum*

Lampiran 9

Rekomendasi Pembelian Darah dari PMI



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Perihal : Permohonan Pembelian Darah

05 Januari 2021

Yth. Kepala Unit Transfusi Darah PMI
Kota Makassar
di
Makassar

Dengan hormat, sehubungan dengan pelaksanaan penelitian mahasiswa Fakultas Farmasi Unhas yang dilakukan oleh :

Nama Mahasiswa : Amelia Horas
Nomor Pokok : N011171303
Program Studi : S1 Farmasi

Dengan ini kami mengajukan permohonan agar mahasiswa tersebut dapat diizinkan untuk melakukan pembelian darah di UPT PMI Kota Makassar.

Demikian permohonan kami, atas perhatian dan kerjasamanya disampaikan terima kasih.


 Wakil Dekan Bid.Akademik, Riset dan Inovasi,
 Prof.Dr. rer-nat. Marianti A. Manggau, Apt.
 NIP. 196703191992032002

Tembusan :

1. Ketua Gugus Penjaminan Mutu
2. Kabag. Tata Usaha
3. Arsip

